

WHAT IS CLAIMED IS:

1. A vibration type driving apparatus comprising:
a vibration member of which the vibration is
excited; and

5 a contacting member contacting with said vibration
member, said contacting member and said vibration
member being moved relative to each other by the
vibration of said vibration member;

10 wherein a friction member is provided on the
contacting portion of at least one of said vibration
member and said contacting member, and said friction
member is formed with a contacting surface smoothed by
the pressing of a mold.

15 2. A vibration type driving apparatus according
to Claim 1, wherein the formation of said contacting
surface by the pressing of said mold is effected with
heating.

20 3. A vibration type driving apparatus according
to Claim 1, wherein the formation of said contacting
surface by the pressing of said mold is effected by a
press forming method.

25 4. A vibration type driving apparatus according
to Claim 1, wherein the formation of said contacting
surface by the pressing of said mold is effected by an

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ultrasonic working method.

5. A vibration type driving apparatus according to Claim 1, wherein said friction member is a material including a resin material.

6. A vibration type driving apparatus according to Claim 2, wherein said friction member is a material including a resin material.

7. A vibration type driving apparatus according to Claim 3, wherein said friction member is a material including a resin material.

8. A vibration type driving apparatus according to Claim 1, wherein said friction member is set so that the ridgeline portion of the contacting portion of a partner side contacting said friction member is in non-contact with said friction member.

9. A vibration type driving apparatus according to Claim 8, wherein said friction member is formed with a depressed portion, and is in non-contact with said ridgeline portion of the contacting portion of said partner side.

10. A vibration type driving apparatus according

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a contacting member contacting with said vibration

25 member, said contacting member and said vibration
member being moved relative to each other by the
vibration of said vibration member;

wherein a friction¹⁴ member is provided on the
contacting portion of at least one of said vibration²¹
member and said contacting²² member, and said friction
member is formed of a resin composition containing
5 heat-resisting resin and mesophased pitch carbon fiber.

15. A vibration type driving apparatus according
to Claim 14, wherein said mesophased pitch carbon fiber
is carbonic.

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16. A vibration type driving apparatus according
to Claim 14, wherein said mesophased pitch carbon fiber
comprises short fiber.

15 17. A vibration type driving apparatus according
to Claim 14, wherein the content of said mesophased
pitch carbon fiber is 10 to 30 % by weight.

20 18. A vibration type driving apparatus according
to Claim 14, wherein said heat-resisting resin includes
fluororesin.

25 19. A vibration type driving apparatus according
to Claim 14, wherein said heat-resisting resin includes
polyimide resin.

20. A vibration type driving apparatus according

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to Claim 14, wherein said resin composition contains molybdenum disulfide.

21. A vibration type driving apparatus according
5 to Claim 14, wherein said resin composition contains polyimide powder.

22. An apparatus for driving an object to be
driven by using the vibration type driving apparatus
10 according to Claim 14 as a drive source.

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